

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1543] AC Hum
Message-ID: <199507080458.XAA02348@chuck.dallas.sgi.com>

Gang,

This is the story of AC Hum which even I find hard to believe myself.

Early in the week I was on 30M (of course) with the OHR Explorer. Talking to someone back east (3 call area of the USofA) in the early morning hours and this individual gave me a tone report of 8!! I don't ever recall in 38 years of on the air work ever getting anything other than a 9.

After wrapping up the contact I proceeded to investigate to see if indeedy I really had such a problem. I was using the 20Ahr Gel-Cell from Gates, thus I knew it wasn't a power supply problem. I unplugged the CK-2 from the key jack and some of the AC Hum went away. Ah-Ha, maybe the AC power cube for the keyer. Nope. Put it on the batter and the problem still remained.

OK, let's try another rig. Got the NorCal 40a, the Sierra, the MXM, and others and they all exhibited the same behavior. OK, must be the antenna. Went outside to see if trees were touching it -- no, then reversed ladder line leads, still no change.

Well, I can tell you by this time I was puzzled. Having several advanced degrees in Physics I was about to award myself the Nobel Prize in Physics for a new discovery. :-)

OK, let's try one more thing. Turn off everything in the shack except the receiver. Wow, the AC Hum went away. Powered up things one at a time and never in million years would I have layed the blame on the Heathkit GC-1000 WWV receiver and precision clock.

Must have lost an electrolytic or something. I have to get some spare time and take it apart and check it out. This puppy has been on for more than 15 years now without a problem except the loss of one transistor in a Darlington pair configuration due to close

lightning strike.

Stranger than friction for sure.

Don't see how it induced an AC component onto a 950mW signal on 30M, but it did. Must be putting out some wierd stuff so will have it off til fixed.

Just thought the group might be interested in problems too and the strangeness of it all.

dit dit de timeless in TX

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: "Jim Larsen" <jlarsen@alascaom.com>
Subject: [1549] Alaska Manual Beacon 7.049 to 500 mw
Message-ID: <9506088052.AA805235139@mailrouter.alascaom.com>

Greetings from Alaska.

The rig seems to handle the beacon pretty well so I have increased the power output to 500 mw. The db gained from 100 mw to 500 mw might make it more fun for folks trying to copy through L48 QRN. We don't have any QRN up here most of the time. S-meter reads zero unless the TV birdies are killing me....and they do.

Listen for:

VVV VVV VVV 500 mw de AL7FS/B pause pause pause and repeat.

This is fun. I tuned around this morning about 5 hours after sunrise and found JAs coming through.....I never knew that before. From my experience in Iowa in the 60s I "knew" how far you could go during the day. Yeah, right.

73,

Jim Larsen
AL7FS
Anchorage, Alaska
jlarsen@alascaom.com

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [1536] Answer to appeal for help
Message-ID: <n1406980466.61673@msmailgw1.arlut.utexas.edu>

Brian and the group,
I sent the individual the kit manufacturers list and updates to status; such as no more Dan's and Townsend, and new adr. on Tejas Kits, yesterday. Also briefly told him that occasional sale items are handled here. I have been tied up and not reading today's mail until now, but have not yet seen a reply. However, I always use the receipt function, and think I did see his system take the message.

72,
Stuart K5KVH rohre@arlut.utexas.edu

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: mckinnon@tezcat.com (Chuck McKinnon)
Subject: [1538] Cap value help!
Message-ID: <v01510100ac23956c9978@[204.248.80.130]>

Hi all,

 This seemed like a more appropriate place than Usenet, given the technical bent of some. =)

 Having just bought the Rat Shack capacitor assortment package (ceramic disks), how do I go about determining the values of a given cap?

 To pick one at random, it says:

/ Z5U \	< -- some sort of code (mfg, ?)
/ 102 \	< -- big question -- would this be uF or pF
1 Kv	< -- easy =) the voltage rating
\ KCK /	< -- another code?

/	

a smaller one says:

/ 62 J \	< -- huh?
--	

/	

thanks in advance,

--

Chuck McKinnon
mckinnon@tezcat.com

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: NYOUNG@nova.wright.edu
Subject: [1537] Dated QSLs and other thoughts on change
Message-ID: <01HSLR55DRQU8X0U9D@nova.wright.edu>

About 20 years ago, back when we had just moved to the one-story house with attached garage that we owned before moving to this dump, I had a station set-up that went like this: radios, keys, keyers and other nicknacks in two shelves with the keys and paddles underneath. To the right was the rehabilitated Heath Warrior, affectionately dubbed "Bozo" by its previous owner, and then, to the right of that, the home-spun speaker cabinet, containing a 12 inch foam cone speaker and a tweeter, all tuned for voice range and centered around 750 Hz. Notice that the radio is in front of me, the amp is to my right and then, about three or so feet away, the speaker. At the time it sounded like a good idea, and when I rehabilitated the outhouse -- removing the numerous extra holes and seats for what must have been a family of about 15 Chicanos who worked at the local plantation nursery -- I duplicated the effect: radio in front of me, amp to the right, speaker off at the end of the bench, belching out into space some three feet from my ears. That was before my ears started to go bad from listening to the next door neighbor gun the engine on his various toys: jet boats, jet skis, pick-up trucks with racing cams, two Kenworths, one white and the other red. Stuff like that. The kind of stuff that I moved out of New Carlisle to get away from. Moved to the country. Yeah, the main drag between the biker bar and the cement plant.

Well, I recently decided to change all the radio accommodations. I moved the speaker out of the way, shoved everything to the right and plunked the speaker down to the left of the radio. That meant that the speaker was about a foot from my face. I can hear again. Well, kinda. There's still the noise from the moron next door. Between that and him and his wife arguing and rippin' out of the drive way every now and a while, I still have enough "live audio" QRM to do, thanks.

But here's the catch: while moving all this stuff, I spilled out my entire box of QSL cards. I have tons of 'em. From all over. So tonight I sat down and, with headphones on to block out the carberetter adjustments next door, I sorted through 'em.

How many cards do I have for countries that don't even exist any more? Deutsche Demokratische Republik. Yugoslavia. And all the oblast cards that I was saving to get the "Worked All Oblast" diplom from the Central Radio Club, Box 88, Moskva, USSR? All the LZ cards from Bulgaria. The cards from the Ukraine, from the Byelorussian Federation of Socialist Soviets? What about them. And the UP# cards from Lithuania and the cards from the Estonian province? Hell, they don't even speak a slavic language in Estonia. Any fool can see it's related to Finnish and thus to the Transiberian Finno-Ugric languages. What about all those amateurs? Are any of them still around? Do any of them still get enough electrical service of any quality to have a station?

And then there are the people themselves, all those faces behind the cards. It's amazing to me to think about it now, to think that there was a time when I didn't put a face on a voice or a key. It was a call-sign in the log book and a card toward a diplom. (Yeah, diplom. I have the SSA "diplom bok" from around 1981. Every award is a diplom. It sounds so much more cultured than saying "County Hunters Award.") So here I am, sorting the cards out by call prefix and number and I come across these:

PA0LY. Willem Blommaart in St. Jansteen. His note on the card said that he was born in 1897 and that he got on the air in 1926. The man would be two years short of 100 now. Is he still on the air, Willem? If so, does his QSL card still have a picture of him, laughing face, pipe in hand, smiling out across the ether at some other young man who hasn't seen the ravages of age yet?

How about N8BZK, Joe Curran. Joe and I met because of Dad's death. When Dad died, I suddenly became interested again in the printing stuff that he'd had. I joined a hobby printers' outfit and met Joe. Joe Curran. Former FBI agent, former military policeman, former Marine. Heart patient. I sat down with Joe maybe 5 years ago now, and watched him lay his medication out on the restaurant table as if he were dealing a hand of cards. He had just come through his second cardiac surgery and was looking forward to visiting his friends in Florida. One of 'em is J.Ed Newman, who started out as a ham when he was a kid. J.Ed, old enough to be Joe's father. Joe was waiting, as he said, for the doctors to "examine my bank account and see how many more years I have left." It wasn't much. That summer Joe and his wife got into the family car and set out from Vermilion, Ohio, to see printing friends along the way. Somewhere outside of Wilmington, Ohio, Joe pulled the car over to the curb and died. Just like that. His pictures on his card too, looking over his shoulder with that genial smile that was even part of his face as he sat in the restaurant and looked at the hand his life had dealt him. N8BZK. Another card on

the wall.

And then there's Cesar, PY1SW, whose card, printed letterpress with a note on the front refering the reader to a picture on the back, bears in small type the letters of every award and club or group to which he belongs. If he still belongs among the living. ON the back of the card is Cesar, smiling at the camera which recorded the wall of awards and diploms, the 6 foot cabinet full of dials and knobs and switches, the station. Cesar's station was strange, by today's standards, but by the 1974 technology, and given Cesar's QTH on the planet, it was quite a deal: 100 ft tower with a beam that looks for all the world like a section of tower lattice laid across the top with elements sproinging out into space all over. The rig? Well, there's the Viking Ranger and the Heathkit lay-out, the Warrior and the Apache and the Navaho. The stuff you see at Dayton, laid out on plastic tarps on the tail-gates of pickups. Pickups like the one next door which has suddenly gone silent. Perhaps from a piston through the block. And Cesar? What of him? Does he still get on the air with the Pica-Pau Carioca gang in Rio? I wonder.

I looked over those cards and wondered about the faces and about the cards themselves. Some of the designs, especially the ones from behind what we used to call the Iron Curtain, run from rubric to rough, from elegant to blantly propaganda. Cyrillic letters turned over to become Vs or Ws; with names of towns rarely mentioned, as was the style in the former Soviet Union when to know the exact location of a radio station was to know how to target your weapons, when to read a map was a crime of high treason. And the handwriting and the little notes, some in Russian, others in English, from people who now may be wondering when the next potato is going to arrive. Or if they might make it through the night as the tanks circle the Chechen towns, their radios silent.

It's amazing when I think of it. Here we are, strung together by these little jitters on the screen, with boxes of pictures and cards much like mine, and it's all so impermanent, as impermanent as the towers that blow down or the lightning that blows 'em up, as impermanent as the sparks of our own lives. Sometimes I forget -- I'm sure we all do -- that the voices we hear on the other end of the circuit are people just like us, sparks of our own selves, reaching out to say "hi" before looking again at the hand we've been dealt. Damn lucky, we are, to be able to do that. Even on an infrequent basis. Especially when we stop to consider how much the world has changed in these past 10 years. And how much more it will change before we're through... as a species or as people, individuals just like us around the world.

It makes that file box full of cards a little more heavy, just thinking about the faces that breath or breathed life into the messages

recorded there. And yet, there's that light touch upon the key. And we're all just sparks in the night, like momentary fire-flies in a universal darkness.

73
Nils
WB8IJJN &C

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1541] email es stuff
Message-ID: <199507080415.XAA02247@chuck.dallas.sgi.com>

Gang,

The last week was not a good week for email.

It started at work with someone wanted to rearrange office space for new people and scheduling it to be done this week of the 4th when we had an extra day off.

So on Friday I took down my system and packed the office after getting back from MD. This in anticipation of getting back on Wednesday. NOT.

I still do not have an office (it's on a truck somewhere :-)) , but I did move my computer system and this is not a laptop gang to the classroom where I teach and setting it up on the network to get qrp-1 and back on the Internet. We might start a support group for those of us really and truly addicted to email. I was about to go into shock. :-)

Anyway, if I have not responded to you let me know what the email was. No telling what may have happened. I got a lot of mail and responded to same, but I just wanted to be sure to get to all of it.

Thanks gang,

dit dit

p.s. wanted 70' tower with THX-6DXX beam and rotor. House attached would be nice. :-)

--

Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: Mike.Czuhajewski@bbs.abs.net (Mike Czuhajewski)
Subject: [1548] QRP Quarterly in the works
Message-ID: <1995Jul08.162552.13676@abs.net>

Got e-mail from N8DHT today, and he says the QRP Quarterly for July looks "really fat and good". (He has to OK things at the printer before presses roll; last minute review and all that.) He says he hopes to see it in the mail by the 14th. BTW, K3TKS showed me his SPRAT today, so those have just hit MD, and QRPP has been in the State for about a week. No sign of 72 yet. 73 and Queue Our Pea DE WA8MCQ

--

Mike Czuhajewski, user of the UniBoard System @ abs.net
E-Mail: Mike.Czuhajewski@bbs.abs.net
The WB3FFV Amateur Radio BBS - Located in Baltimore, Maryland USA
Supporting the Amateur Radio Hobby, and TCP/IP InterNetworking

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: rarland@epix.net
Subject: [1547] QRP Vol-III Orders
Message-ID: <Pine.SUN.3.91.950708133248.24284B-100000@peach.epix.net>

Boy! Are you guys gluttons for punishment, or what!

I received over 40 commitments in two days! I'll be talking to the publisher today and will have him ship out 50 copies. They should be here by mid-month.

ORDERING INFORMATION:
Cost: \$13.50 which includes 3rd class postage.

Make checks payable to: Richard H. Arland

Send your COMPLETE mailing address and check (or postal money order) for \$13.50 to:

Rich Arland
P.O. Box 1782
Shavertown, PA 18708

PLEASE ALLOW AT LEAST 3 WEEKS FOR DELIVERY. We are using "Snail Mail", so be prepared to wait.

Thank you to all who took the time to answer my inquiry.

73 es C U on the bands.

rich

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: bobhigh@primenet.com (Bob Hightower)
Subject: [1551] QRP+ SSB Power...again
Message-ID: <199507082257.PAA01297@mailhost.primenet.com>

I got a number of responses and suggestions to the first message, so thought I'd post this update; made the first SSB contact from Chandler, AZ (outside Phoenix) to Charlie K6IQY in Menlo Park, CA on 300 mw. Changed the element to the RS electret element (cat no 270-092b), and it kicked up to 700 mw, then made contact with KK5GN in Houston. I was down in the mud, but he got it OK.

Now to see what the intended mic does, and how it compares. Might need to do some more tweaking on this, but for now, I'm reasonable satisfied. Still a little disappointed with the low power, both CW and SSB, from the rig. Can't have it all, I guess.

73 to all, Bob KI7MN

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [1540] Vibroplex Paddle
Message-ID: <199507080408.XAA02230@chuck.dallas.sgi.com>

Gang,

Just before the big gathering of dweebs in Dayton OH one

Mitch Mitchell, first ham owner of Vibroplex and frequent contributor to this group and hamdom in general, announced his presence to the group when he signed on.

He and I exchanged some email about bugs etc. and then I promised to look him up at Dayton which I did. Real nice gentleman and he was busy at Dayton what with the crowds and the pressing of the flesh with everyone else in the world telling him of their early days and experiences with their first "bug", etc. Since I had been thinking of a lot of stuff on the drive to Dayton and since I had recently purchased a Brass Racer without the keyer and loved the paddle so much that I have since bought another before the price increase I had thought that I personally would like to see a square base. It might be that my first paddle was the Brown Brothers Iambic a long time ago and it had a rectangular base and then came the Bencher with it's square base. Anyway I mentioned it to Mitch and he asked that I email him when I got back.

I did and then when I saw him in Dallas at HamCom I brought the topic up again and he asked that I email him specs when I got back from a trip.

Well I am here to tell you that today on the door step was a small package from Vibroplex. I was excited!! Christmas in July!!! I took the package to the desk (the same one in CQ magazine but not as clean) got the Exacto knife and opened the box. WOW!! There it was the #1 four inch square brushed brass plate with holes for mounting the Brass Racer paddles and contacts. It was not coated so I got the glass cleaner (the only thing in the house) and cleaned it thoroughly and got a can of Krylon (tm) Acrylic spray and put a very light coat on the base. Went to see "Species" and when I got back it was dry and I proceeded to mount the parts on it and connect to the AEA CK-2 keyer. It works great.

For those of you in the know and have seen the expensive Shurr paddles. The base reminds me very much of the same thing. It is beautiful!!

I got email the other day from Mitch warning me that it was on the way and that he liked it so much he had another made for himself. It is the same thickness as the original brass triangle and it is heavy and won't be moving around on the desk. Good paper weight also. So, to my knowledge, I have #1 and Mitch has #2.

It is my hope that he will like the design and look and feel so

much that he will go into production on this model. I will try to get a nice photo and put at the ftp site in the next week or so.

Just wanted to acknowledge the gesture by Mitch and the fact that he does listen to the customer. It is that kind of leadership and management that will make a company successful.

Thanks Mitch and the crew at Vibroplex for a prized work of art and craftsmanship.

Another satisfied customer.

dit dit

p.s. I mounted four rubber feet on the base, thus no wood base as on the triangular base with the original design. It is truly/truely a beauty. Now is I can just get a bug outta my keyer I'd be set.

The CK-2, MM-3, or CMOS II will do for now. Can't wait for the Wayne Burdick special chip. This hobby gets more exciting each day. It looks like to me the QRP world is where the action is and the new designs are rolling out. INMHO.

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Chuck Adams K5FO CP-60 adams@sgi.com

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [1546] RE: AC Hum
Message-ID: <950708102111.20209a97@carib.vf.mmc.com>

Chuck,

Your problem is not a unusual as you may think. One very good mechanism for your mystery hum is magnetic induction. The power transformer in the receiver (particularly a cheap transformer) can put out one whopping magnetic field. And this field will couple to sensitive circuitry PARTICULARLY THINGS LIKE TOROIDS. If, for example your vfo toroid get enough ac gasusses in it you'll get fm! Remember the recent discussion about steel bridges detuning rigs? Same mechanism! If the filed is strong enough, it can do some really strange things to the rf permeability.

More expensive power transformers wrap a large copper turn around the outside of the core to "catch" stray fields so thaat they don't leak out at cause problems. Shielding of the affected rig is not always easy, aluminum boxes don't effectively stop these lf magnetic fields. I've seen the field from a

switching power supply induce a harmonic of the switching frequency into a receiver 15 feet away, right through the cabinets of both and into the tuning inductors of the receiver! Thought it was an internal spur in the receiver, because it was still present with the receiver terminated in 50 ohms.....

The fix is to get the rig out of the field. Physical separation can do the trick because the field drops off very quickly with distance. Or you may just try rotating the device with the offending transformer. The induction is usually very directional (figure 8) so you may be able to null it out. Good troubleshooting technique, too.

Good luck and 72/73,

Joe E. N2CX

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: Aa4xx <aa4xx@nando.net>
Subject: [1550] Re: Alaska Manual Beacon 7.049 to 500 mw
Message-ID: <Pine.SUN.3.90.950708182444.4557J-1000000@merlin.nando.net>

On Sat, 8 Jul 1995, Jim Larsen wrote:

> Listen for:
>
> VVV VVV VVV 500 mw de AL7FS/B pause pause pause and repeat.

Jim,

Can you tell us about your antenna? Also, which States are hearing you? Thanks es 72,
Paul, AA4XX

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: geoffs@onr.com (Geoff Schecht)
Subject: [1545] Re: Cap value help!
Message-ID: <199507080602.BAA27053@Sierra.onr.com>

Chuck:

> Having just bought the Rat Shack capacitor assortment package
> (ceramic disks), how do I go about determining the values of a given cap?
> To pick one at random, it says:
> -----

```

> / Z5U \      < -- some sort of code ( mfg, ? )
> / 102 \      < -- big question -- would this be uF or pF
> | 1 Kv |      < -- easy =) the voltage rating
> \ KCK /      < -- another code?
> \-----/
> /-----\
> |         |
>

```

Z5U is the temperature coefficient of the capacitor. Z5U is only good for bypassing purposes. Other tempco codes are X7R, Y5V and NPO (or COG).

102 is 10pF times 10^2 or 1000pF. 103 is .01uF, 104 is 0.1uF, 105 is 1uF, etc. Example: a 511 would be a 510pF part.

Voltage rating is self evident.

KCK is probably a mfg code.

>a smaller one says:

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>
>
> /-----\
> / 62 J \    < -- huh?
> \  --  \
> \-----/
>
>

```

62pF. J is the tolerance marker, I'm gonna guess 5% but you need a Murata or Panasonic catalog to verify it.

Geoff NQ7A

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
 From: JEVERHART@cayman.vf.mmc.com
 Subject: [1539] Re: Pixie/LM386
 Message-ID: <950707230415.2020a969@carib.vf.mmc.com>

Gang, this is close to the subject line. It might prove handy for someone who wants a (blush) QRO -386-type chip.

I recently got one of those cute little RS amplifier kits to give more oomph to my 30-40. It is rated to 1 watt (I think) at 12 volts and uses a single-in-line chip marked NJM386BS. That number is one of those familiar/strange numbers kinda like the LM 386, but not quite. Being a SIP, it has a different

pin-out than the LM 386, but very similar circuitry in the R-S board. I asked for help on the list and got the following reply:

```
> From:SMTP%"eighmy@koala.scott.net" 13-JUN-1995 18:56:59.36
> To:JEVERHART
> CC:
> Subj:Re: Data for NJM386BS?
>
> Date: Tue, 13 Jun 1995 17:56:44 -0500
> Message-Id: <199506132256.RAA20689@koala.scott.net>
> From: eighmy@koala.scott.net
> Subject: Re: Data for NJM386BS?
> To: JEVERHART@cayman.vf.mmc.com
> X-Mailer: AIR Mail 3.X (SPRY, Inc.)
```

<SNIP>

```
> This might help... it is manufactured by New Japan Radio Corporation
> (used to be Japan Radio Corporation). It does not show up as a
> direct replacement for the LM386 in the IC Master and the only data
> stated is "20 dB Gain, Headphone amp" with a variety of packages.
>
> Getting Databooks from JRC is almost impossible. I have asked for
> them before but US distributors have difficulty getting them
> (probably still written in Japanese.) Maybe the New JRC will be a
> little better about this.
>
> I have five of these NJM386's that I bought from Dan's Small Parts.
> He sold them as LM386's and I used them like they were 386's
> without any problems or noticable differences (and the price was
> right). I didn't know they weren't a direct cross until now:-)
>
> Hope what little I have sent helps.
>
> 72,
>
> Gene
> WD4MPS
> wd4mps@scott.net
> 31 states wrked / 25 confirmed on 300mW Ugly Weekender
```

Now that Danny is in limbo (or some other small WY/MT town), anybody got another source?

72/73,

Joe E. N2CX

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: JCoote@aol.com
Subject: [1542] Re: QRP/Low Power CW/SSB rigs
Message-ID: <950708001758_27709890@aol.com>

You can do the QRP modifications for any number of Icoms, Kenwoods, etc etc.
The only problem is even with the transmit power turned down, most are power hungry even in receive. Figure an amp or so receive and 4-5 amps TX at QRP.

72.9 (IC-735 QRP)

Jay, WB6AAM

From qrp-1@lehigh.edu Sat Jul 8 19:04:18 1995
From: Brian Short <ke7gh@primenet.com>
Subject: [1544] Re: QRP/Low Power CW/SSB rigs
Message-ID: <199507080531.WAA00434@usr2.primenet.com>

I missed something. How do I run my FT-890 at QRP levels? de Brian

>
> You can do the QRP modifications for any number of Icoms, Kenwoods, etc etc.
> The only problem is even with the transmit power turned down, most are power
> hungry even in receive. Figure an amp or so receive and 4-5 amps TX at QRP.
>
> 72.9 (IC-735 QRP)
>
> Jay, WB6AAM
>
>